BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of work: Improvements To Roads At 5th,6th,8th,12th Cross Shivanandha Store Road,Maheshwarama Temple And Surrounding Area in Ward No 13 Shettyhalli Sub-Division

Est .Cost Rs 45.00 Lakhs

Sl. No		Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No-140 Item no - 18.47 of KPWD SR 2018-19)**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		2	70.00	1.20	0.15	25.20		
	4th cross 1st Main Road to 2nd Main Road		2	80.00	1.20	0.15	28.80		
	11th cross Pipe Line Road		2	50.00	1.20	0.15	18.00		
	From 9th Cross to 11th Cross		1	60.00	0.90	0.15	8.10		
	Prashant Nagara								
	6th cross		2	20.00	1.20	0.15	7.20		
		Cum					**87.30**	**952.94**	**83191.66**
	Basic Rate	899.00							
	Area Weightage 6%	53.94							
	Grand Total	**952.94**							
2	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20		600.00		
	Shivananda Store Road		2	194.00	1.20		465.60		
		Sqm					**1065.60**	**95.40**	**101658.24**
	Basic Rate	90.00							
	Area Weightage 6%	5.40							
	Grand Total	**95.40**							
3	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 143/ Item No. 19.1/ PWD SR 2018-19)**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		2	70.00	1.20	0.30	50.40		
	4th cross 1st Main Road to 2nd Main Road		2	80.00	1.20	0.30	57.60		
	11th cross Pipe Line Road		2	50.00	1.20	0.30	36.00		
	From 9th Cross to 11th Cross		1	60.00	0.90	0.30	16.20		
	Prashant Nagara								
	6th cross		2	20.00	1.20	0.30	14.40		
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20	0.25	150.00		
	Shivananda Store Road		2	194.00	1.20	0.25	116.40		
		Cum					**441.00**	**137.80**	**60769.80**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	**137.80**							

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4	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		2	70.00	1.20		168.00		
	4th cross 1st Main Road to 2nd Main Road		2	80.00	1.20		192.00		
	11th cross Pipe Line Road		2	50.00	1.20		120.00		
	From 9th Cross to 11th Cross		1	60.00	0.90		54.00		
	Prashant Nagara								
	6th cross		2	20.00	1.20		48.00		
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20		600.00		
	Shivananda Store Road		2	194.00	1.20		465.60		
		Sqm					**1647.60**	**6.36**	**10478.74**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Grand Total	**6.36**							
	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No-155 Item no - 20.18 of KPWD SR 2018-19).**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		2	70.00	1.20	0.15	25.20		
	4th cross 1st Main Road to 2nd Main Road		2	80.00	1.20	0.15	28.80		
	11th cross Pipe Line Road		2	50.00	1.20	0.15	18.00		
	From 9th Cross to 11th Cross		1	60.00	0.90	0.15	8.10		
	Prashant Nagara								
	6th cross		2	20.00	1.20	0.15	7.20		
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20	0.25	150.00		
	Shivananda Store Road		2	194.00	1.20	0.25	116.40		
		Cum					**353.70**	**2001.28**	**707852.74**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	**2001.28**							
	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		2	70.00	1.20	0.15	25.20		
	4th cross 1st Main Road to 2nd Main Road		2	80.00	1.20	0.15	28.80		
	11th cross Pipe Line Road		2	50.00	1.20	0.15	18.00		
	From 9th Cross to 11th Cross		1	60.00	0.90	0.15	8.10		
	Prashant Nagara								
	6th cross		2	20.00	1.20	0.15	7.20		
		Cum					**87.30**	**5509.33**	**480964.22**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						

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	Sub Total	5197.48							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**									
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		1	70.00	5.00	0.15	52.50		
	4th cross 1st Main Road to 2nd Main Road		1	80.00	5.30	0.15	63.60		
	11th cross Pipe Line Road		1	50.00	4.80	0.15	36.00		
	From 9th Cross to 11th Cross		1	60.00	5.50	0.15	49.50		
	Prashant Nagara								
	6th cross		1	20.00	5.60	0.15	16.80		
		Cum					**218.40**	**5354.02**	**1169318.37**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
8	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.**(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)**								
	For CC Road								
	Kalyana Nagara								
	6th cross 1st Main Road to 2nd Main Road		1	70.00	5.00		350.00		
	4th cross 1st Main Road to 2nd Main Road		1	80.00	5.30		424.00		
	11th cross Pipe Line Road		1	50.00	4.80		240.00		
	From 9th Cross to 11th Cross		1	60.00	5.70		342.00		
	Prashant Nagara								
	6th cross		1	20.00	5.60		112.00		
		Sqm					**1468.00**	**72.08**	**105813.44**
	Basic Rate	68.00							
	Area Weightage 6%	4.08							
	Grand Total	**72.08**							
9	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications.MORTH Specification No. 502 **(Page No-158 Item no - 21.6 of KPWD SR 2018-19)**								
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20		600.00		
	Shivananda Store Road		2	194.00	1.20		465.60		
		Sqm					**1065.60**	**28.62**	**30497.47**
	Issue Rate	27.00						26.50	
	Area Weightage 6%	1.62							
	Grand Total	**28.62**							

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10	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen **(Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)**								
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		2	250.00	1.20	0.05	30.00		
	Shivananda Store Road		1	194.00	2.20	0.05	21.34		
		Cum					**51.34**	**6597.44**	**338712.57**
	Issue Rate	6224.00						5727.18	
	Area Weightage 6%	373.44							
	Grand Total	**6597.44**							
11	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **(Page No-158 Item no - 21.2 of KPWD SR 2018-19).**								
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		1	250.00	4.80		1200.00		
	Shivananda Store Road		1	194.00	4.90		950.60		
		Sqm					**2150.60**	**5.30**	**11398.18**
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	**5.30**							
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH **(Page No-158 Item no - 21.7 of KPWD SR 2018-19).**								
	For Asphalt Road								
	Kalyan Nagara								
	12th Cross BhagyaLakshmi Temple Road		1	250.00	4.80		1200.00		
	Shivananda Store Road		1	194.00	4.90		950.60		
		Sqm					**2150.60**	**12.72**	**27355.63**
	Issue Rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	**12.72**							
13	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015,**do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic) (P.No.171 & I.No.21.78.12, PWD 18-19)**								
	2nd cross, BHEL Mini colony		1	103.00	4.50	0.03	13.91		
	3rd cross BHEL Mini colony		1	56.50	4.50	0.03	07.63		
	12th Cross BhagyaLakshmi Temple Road		1	250.00	4.80	0.03	36.00		
	Shivananda Store Road		1	194.00	4.90	0.03	28.52	6761.74	
		Cum					**86.02**	**7753.90**	**667021.49**
	Issue Rate	7315.00							
	Area Weightage 6%	438.90							
	Grand Total	**7753.90**							

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14	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 & I.No.17.1 PWD 18-19)								
	Vide Item No.1,2 & 3						597.56		
		Cum					597.56	57.00	34061.15
	Basic Rate	57.00							
15	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
	Vide Item No.14						597.56		
		t.km					597.56	25.60	15297.64
	Lead for earth 10 km=(10*1.28*2=25.60)	25.60							
								Total Constrution cost	3844391.34
								GST Charges 12%	461326.96
								Tender Premium 5%	192219.57
								Sub Total	4497937.86
								Miscellaneous & Rounding Off	2062.14
								Grand Total	4500000.00

Certificate:-

1) This work comes within BBMP limits.
2) Certified that Personaly Inspected the Work Spot
3) Certified that the estimate is prepared based on CSR of PWD Banglore Circle 2018-19
4) Estimate is prepared Making Use of essential item of work as per site Conditions in safest way of Execution in most economical way
5) This work is not included in any other program of work

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shetyhalli Sub - Division

Executive Engineer
Dasarahalli Zone

ADMINISTRATIVELY SANCTIONED FOR Rs. 45.00
(Rupees Forty Five Lacks only)
Under the Head of Account P-3726
Registered as no EE(D.D.)/AS-13/20-21 Subject to conditions contained in Enclosed Memo No EE/DD/AS/13/2020-21 Dt: 22/04/2020

JE/AE. (DASARAHALLI) Exe. Engr.

Technically Sanctioned For Rs: 45,00,000/-
Rs. In Words Forty five Lakhs only
Under P3726
Job Code No 013-20-000129
Registered as SE No 33 / 20-21 subject to conditions contained in Enclosed Memo No SE/D2/TS/33/20-21 Dt 06/05/20

TA SE(D)

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